Recovery Plan Action Status

Plan Name: Northern Monkshood

Plan Status: Final Plan Date: 23-Sep-83

Lead Agency: USFWS
Lead Office: Green Bay Ecological Services Field Office 866-1717)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Northern wild monkshood (Aconitum noveboracense)	2	1111	White Pine Hollow, IA	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Iowa Conservation Commission	Acquisition: General	Internal Administrative	lowa DNR owns all land with N. Monkshood
Northern wild monkshood (Aconitum noveboracense)	2	1112	Buck Creek, IA	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, The Nature Conservancy	Acquisition: General	Graduate Student	TNC Owns preserves on Buck Creek but additional acquisition is needed for complete protection
Northern wild monkshood (Aconitum noveboracense)	2	1113	Loddes Mill Bluff, WI	Complete	Prior to FY 1995	FY 2000 - FY 2004	State agencies	Acquisition: Fee Title	Internal Technical Assistance	This site is owned by UW-Madison and is a State Natural Area.
Northern wild monkshood (Aconitum noveboracense)	2	11201	Yellow River, IA	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Iowa Conservation Commission	Other: Information and Education	Internal Technical Assistance	Private landowners contacted periodically by FWS
Northern wild monkshood (Aconitum noveboracense)	2	11202	Maquoketa, IA	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Iowa Conservation Commission	Other: Information and Education	Internal Technical Assistance	Pribate landowners contacted periodically by FWS
Northern wild monkshood (Aconitum noveboracense)	2	11203	Miner's Creek, IA	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Iowa Conservation Commission	Other: Information and Education	Internal Technical Assistance	Private landowners contacted periodically by FWS
Northern wild monkshood (Aconitum noveboracense)	2	11204	Pine Creek, IA	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Iowa Conservation Commission	Other: Information and Education	Labor type not yet selected	Private landowners contacted periodically by FWS
Northern wild monkshood (Aconitum noveboracense)	2	11205	Peekamoose, NY	Unknown			U.S. Fish and Wildlife Service, New York State Department of Environmental Conservation	Other: Information and Education	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	11206	Drybrook, NY	Unknown			U.S. Fish and Wildlife Service, New York State Department of Environmental Conservation	Acquisition: General	Labor type not yet selected	

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Northern wild monkshood (Aconitum noveboracense)	2	11207	Beaverbrook, NY	Unknown			U.S. Fish and Wildlife Service, New York State Department of Environmental Conservation	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	11208	Watson Hollow, NY	Unknown			U.S. Fish and Wildlife Service, New York State Department of Environmental Conservation	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	11209	Nelson, OH	Obsolete	Prior to FY 1995	FY 2000 - FY 2004	U.S. Fish and Wildlife Service, Ohio Department of Natural Resources	Acquisition: General	Internal Technical Assistance	N Monkshood down to one plant in 1999. OH DNR anticipated NM extirpation at this site in 2000.
Northern wild monkshood (Aconitum noveboracense)	2	11210	Chase Creek, WI	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Wisconsin Department of Natural Resources	Acquisition: Fee Title	Internal Technical Assistance	WDNR (Darcy Kind) spoke to 2 landowners in 2008 about permanent proection of site. The Mississippi Valley Conservacy is planning to close on purchase of about 98 acres including the monkshood site in 2010.
Northern wild monkshood (Aconitum noveboracense)	2	11211	Coon Valley, WI	Complete	Prior to FY 1995	FY 2000 - FY 2004	U.S. Fish and Wildlife Service, Wisconsin Department of Natural Resources	Acquisition: Fee Title	Internal Technical Assistance	This site is owned by WDNR and a State Natural Area.
Northern wild monkshood (Aconitum noveboracense)	2	11212	Pine River, WI	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Wisconsin Department of Natural Resources	Management: Other	Internal Field Assistance	Site is privately owned. In 2008, WDNR reported having a good relationship with the landoweners. In 2010 WDNR reported continued good landowner relations and that the and is in a family trust.
Northern wild monkshood (Aconitum noveboracense)	2	1131	Yellow River, IA	Unknown			U.S. Fish and Wildlife Service, Iowa Conservation Commission	Acquisition	Labor type not yet selected	

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Northern wild monkshood (Aconitum noveboracense)	2	1132	Paint Creek, IA	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Iowa Conservation Commission	Other: Information and Education	Internal Technical Assistance	State forest personnel are aware of monkshood and are protecting it; both FWS and IO DNR provide outreach to them.
Northern wild monkshood (Aconitum noveboracense)	2	1133	Elkader, IA	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Iowa Conservation Commission	Other: Information and Education	Internal Technical Assistance	FWS has advised county highway personnel of monkshood - they have maps of sites.
Northern wild monkshood (Aconitum noveboracense)	2	1134	Peekamoose, NY	Unknown			U.S. Fish and Wildlife Service, New York State Department of Environmental Conservation	Acquisition: Fee Title	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	1135	Beaverbrook, NY	Unknown			U.S. Fish and Wildlife Service, New York State Department of Environmental Conservation	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	1136	Kickapoo River, WI	Complete	Prior to FY 1995	FY 2000 - FY 2004	U.S. Fish and Wildlife Service, Wisconsin Department of Natural Resources	Work type not yet selected	Internal Technical Assistance	Planned COE LaFarge Dam no longer a threat, site protected. Sites part of the Kickapoo Valley Preserve.
Northern wild monkshood (Aconitum noveboracense)	2	121	Cary Arboretum, NY	Unknown			U.S. Fish and Wildlife Service, Cary Arboretum, NY	Work type not yet selected	Internal Technical Assistance	

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Northern wild monkshood (Aconitum noveboracense)	2	122	Other Research	Partially Complete	Prior to FY 1995	FY 2010	U.S. Fish and Wildlife Service	Research: Propagation	Species Expert	Cinncinnati Zoo and Botanical Garden (OH) successfully reproduced N Monkshood through cloning; tissue cultures are stored at the Zoo. In 2006, 25 cloned plants are to be planted at two sites in OH to help boost populations. In 2009 collected tissue from Portage, OH site but was destroyed in lab. In 2010 according to Summit Metro Parks no clones have survived in the wild. In 2010 the Zoo continued to produce plants from tissue culture lines they maintain; currently they have 10 plants in soil, 4 of which were placed in raised beds outdoors. The Zoo is trying to cryopreserve the lines but thus far have not been successful in getting survival after freezing. See also No. 31.

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Northern wild monkshood (Aconitum noveboracense)	1	13	Taxonomic Studies	Ongoing Not Current	FY 2000 - FY 2004		Rutgers State University	Work type not yet selected	Graduate Student, Species Expert	The Flora of North America (Brink & Woods, 1997) moved A. noveborascece to a subspecies under A. columbianum. Bonnie Farrell of Rutgers University (NJ) completed a MA in 2008 on N. Monkshood to further the understanding of the phylogeny of the species and provide insight on its genetics; the reseach found that some (but not all) A. noveborascense form bulbils in leaf axils in the fall; she believes her works supports A. noveborascense as a distinct genetic entity.
Northern wild monkshood (Aconitum noveboracense)	2	14	Life History Research	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, State agencies	Work type not yet selected	Contract	Population Biology of N Monkshood in Iowa completed 1988. Life History and Demography of NMonkshood in NY State completed in 1990.

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Northern wild monkshood (Aconitum noveboracense)	2	15	Monitor Populations	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, Ohio Department of Natural Resources, Wisconsin Department of Natural Resources	Management: Population Monitoring	Internal Field Assistance	Sites in IO, WI and OH monitored in 2006. Up through 2006, the Driftless Area NWR in Iowa monitored 1/3 of its Monkshood sites annually, with populations generally remaining stable. In 2007 sites were monitored in OH, NY, and WI. In 2008, 2009, and 2010 sites were monitored in WI and OH. Not all WI sites are monitored annually. In 2011 no surveys are planned for NY and IA; sites will be surveyed in OH and likely WI. Nuisance plant control conducted at some sites every year.
Northern wild monkshood (Aconitum noveboracense)	2	16	Deauthorize Project	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Wisconsin Department of Natural Resources, U.S. Congress	Acquisition	Internal Field Assistance	COE's LaFarge Dam project will not be built; site protected.
Northern wild monkshood (Aconitum noveboracense)	2	17	Revise NY Law	Unknown			U.S. Fish and Wildlife Service, New York State Department of Environmental Conservation	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	211	Northeast IA	Unknown			U.S. Fish and Wildlife Service, Iowa Conservation Commission	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	212	Catskills, NY	Unknown			U.S. Fish and Wildlife Service, New York State Museum (State Botantist)	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	213	Northeast OH	Unknown			U.S. Fish and Wildlife Service, Ohio Department of Natural Resources	Work type not yet selected	Labor type not yet selected	

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Northern wild monkshood (Aconitum noveboracense)	2	214	Southwest WI	Unknown			U.S. Fish and Wildlife Service, Wisconsin Department of Natural Resources	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	22	New Acquisition	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, State agencies	Acquisition: General	Internal Technical Assistance	
Northern wild monkshood (Aconitum noveboracense)	2	23	Protective Zoning	Unknown			U.S. Fish and Wildlife Service, State agencies	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	24	Scientific Awareness	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, State agencies	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	2511	Maquoketa, IA	Unknown			U.S. Fish and Wildlife Service, Iowa Conservation Commission	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	2512	Pine Creek, IA	Unknown			U.S. Fish and Wildlife Service, Iowa Conservation Commission	Work type not yet selected	Labor type not yet selected	
Northern wild monkshood (Aconitum noveboracense)	2	2513	Akron, OH	Ongoing Current			U.S. Fish and Wildlife Service, City of Akron, OH	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	In 2010, habitat management was conducted at the Crane Hollow site (tree removal) and at Gorge Metropark sites (invasive pulling and spraying/tree removal). Tree removal resulting in more sun may have adversely affected the plants at Site 1A at Gorge Metropark.
Northern wild monkshood (Aconitum noveboracense)	2	2521	Beaverbrook, NY	Unknown			U.S. Fish and Wildlife Service, New York State Department of Environmental Conservation	Work type not yet selected	Labor type not yet selected	

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Northern wild monkshood (Aconitum noveboracense)	2	2522	Nelson, OH	Obsolete	Prior to FY 1995	FY 2000 - FY 2004	U.S. Fish and Wildlife Service, Ohio Department of Natural Resources	Work type not yet selected	Internal Field Assistance	The Nelson Mills populaiton was down to 1 non-flowering plant in 1999 and not expected to survive per a monitoring report dated 1/25/2000 by Jennifer Windus of ODNR.
Northern wild monkshood (Aconitum noveboracense)	2	253	New Seedlings	Unknown			Ohio Department of Natural Resources	Research: Propagation	Species Expert	In 1983 this action pertained to setting up seed plots at Nelson, OH - actions pertaining to this are unknown. In the fall of 2009, seeds were collected by Summit Metro Park in OH and disseminated at 2 historic OH sites and 3 potential offsite locations. As of August 2010, no seedlings have been produced.
Northern wild monkshood (Aconitum noveboracense)	2	254	Pilot Transplants	Unknown			U.S. Fish and Wildlife Service, State agencies	Work type not yet selected	Labor type not yet selected	

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Northern wild monkshood (Aconitum noveboracense)	3	31	tissue culture techniques	Ongoing Current	FY 2000 - FY 2004		Cincinnati Zoo and Botanical Garden	Management: Propagation	Species Expert	Cinncinnati Zoo and Botanical Garden (OH) have reproduced N Monkshood through cloning; tissue cultures are stored at the Zoo. In 2006, 25 cloned plants were planted at two sites in OH to help boost populations. In 2009 tissue was collected from Portage, OH site but was destroyed in the lab. In 2010 according to Summit Metro Parks no clones survive in the wild. In 2010 the Zoo continued to produce plants from tissue culture lines they maintain; currently they have 10 plants in soil, 4 of which were placed in raised beds outdoors. The Zoo is trying to cryopreserve the lines but thus far have not been successful in getting survival after freezing. In 2011, the Zoo was successful in transplanting 7 plants from 4 clones into raised
										clones into raised beds; some of the plants flowered and produced seed.